



MODEL NUMBER: _____

SERIAL NUMBER: _____

DATE PURCHASED: _____

OWNERS MANUAL

OF CARAVAN AIR - CONDITIONER

BELAIR

MODEL

H2400D



For your safety using, please read this manual carefully before using the product .

Safety Notices

Dear user, thank you for choosing a HOUGHTON caravan air-conditioner. For your ease of use and safe maintenance we have included the following symbols in this manual:



All the contents with this “Warning” logo are about the safety of the product and the user, the user shall operate in strict compliance with the instructions.


















All the contents with this “Prohibition” logo are about the actions that shall be prohibited, or else the machine may be damaged or the user’s personal safety may be endangered.

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Safety Notes

-  Make sure the external electric supply socket of the caravan air-conditioner is effectively grounded in accordance with your local regulations. Failure to ground the unit correctly may cause electric shock or fire.
-  The caravan air-conditioner shall be switched on for electric leakage detection after installation.
-  If you are not to use the air-conditioner for a long time, please isolate the power supply.
-  Clean the filter of the air-conditioner regularly, A dirty filter will decrease air flow and lead to poor heating and cooling performance.
-  Use the remote controller to operate the air-conditioner.
-  Install the air-conditioner in compliance with the instructions of this manual ,Incorrect installation methods or alteration of the product may cause damage to the product or personal injuries to the user.
-  Be careful when installing the unit on the bottom of the caravan ,crawl boards may be required.
-  There may be wires on the bottom . When cutting the hole, make sure the power is isolated prevent risk of electric shock .
-  Installation and maintenance of the air-conditioner must only be performed by personnel with appropriate trade qualifications and holding current licenses for such work.
-  Do not over-tighten the power connection terminals.
-  Ensure that your electrical supply and wiring is correctly sized for the power demand of the air conditioner. Refer to the specification requirements of the product.
-  This appliance is not to be used by persons(including children) with reduced physical,sensory or mental capabilities,or lack of experience and knowledge, unless they have been given supervision or instruction.Children being supervised not to play with the appliance.

-  Keep the inlet and outlet of the inside and outside units of the caravan air conditioner smooth.
-  Do not spray any paint or insecticide on the surface of the air-conditioner.
-  Immediately turn off the air-conditioner and isolate power supply if there is any unusual odor,smoke or fire detected, Contact after-sales-service personnel in case of unit fault and fire.

Product Introduction

A. Purpose

HOUGHTON BELAIRE is designed to provide a comfortable environment inside a recreational vehicle or caravan.

B. How to provide an efficient operation

Many factors will affect the total heat load within the caravan and many factors can also affect the working efficiency of the air-conditioner. Before purchasing HOUGHTON BELAIRE, the user shall consult with the caravan manufacturer to understand the total heat load of the caravan and to choose the correct air-conditioner for the application.

The following measures are very useful to reduce the heat load within a caravan or RV and improve the performance of the air-conditioner.

- Close all the doors, skylights and windows, draw the curtains and open the sunshade.
- Adjust the caravan's position to make sure the sunshade is on the southern side in the northern hemisphere or on the northern side in the southern hemisphere. This will reduce the exposure to direct sunshine.
- Turn off the unnecessary electrical appliances within the caravan to reduce the heat-load.
- Please cook outside of the caravan.
- Park the caravan at a shade place.
- In case of exceptional high temperature, turn on the air-conditioner in advance during the morning.
- Adjust the set temperature of the remote control to prevent from frequent start or stop of the unit.

C. Condensation

For the areas where the air humidity is comparatively low, when the warm moist air within the caravan meets with the cold wind from the outlet, condensate water may be caused, which is also called as "sweating". In this case, make sure the following measures are taken:

- Close all the doors, skylights, windows and draw the curtains to reduce the warm moist air incoming.
- In the operation of the air-conditioner, a large number of condensate water will be produced on the roof as the warm moist air is exhausted by the operation of the air-conditioner. The size of the condensate water is decided by the air humidity. In this case, do not adjust the wind FAN to low or auto mode but adjust it to high FAN mode to increase the circulation of the air and reduce the condensation degree.

Please be noted that losses caused by the condensate water are not within warranty scope.

D. Choosing and using of generator

- HOUGHTON BELAIRE requires an AC power source, and may require for generator driving in some remote areas. Requirements for generator include: efficient power source, stable currency, output waveform: sine wave, that shall meet the driving requirements of the compressor. The user shall consult with the generator supply and fully refer to their suggestions.

Please be noted that losses caused to the product by the using of the generator are not within warranty scope.

Packing List

Installation parts list

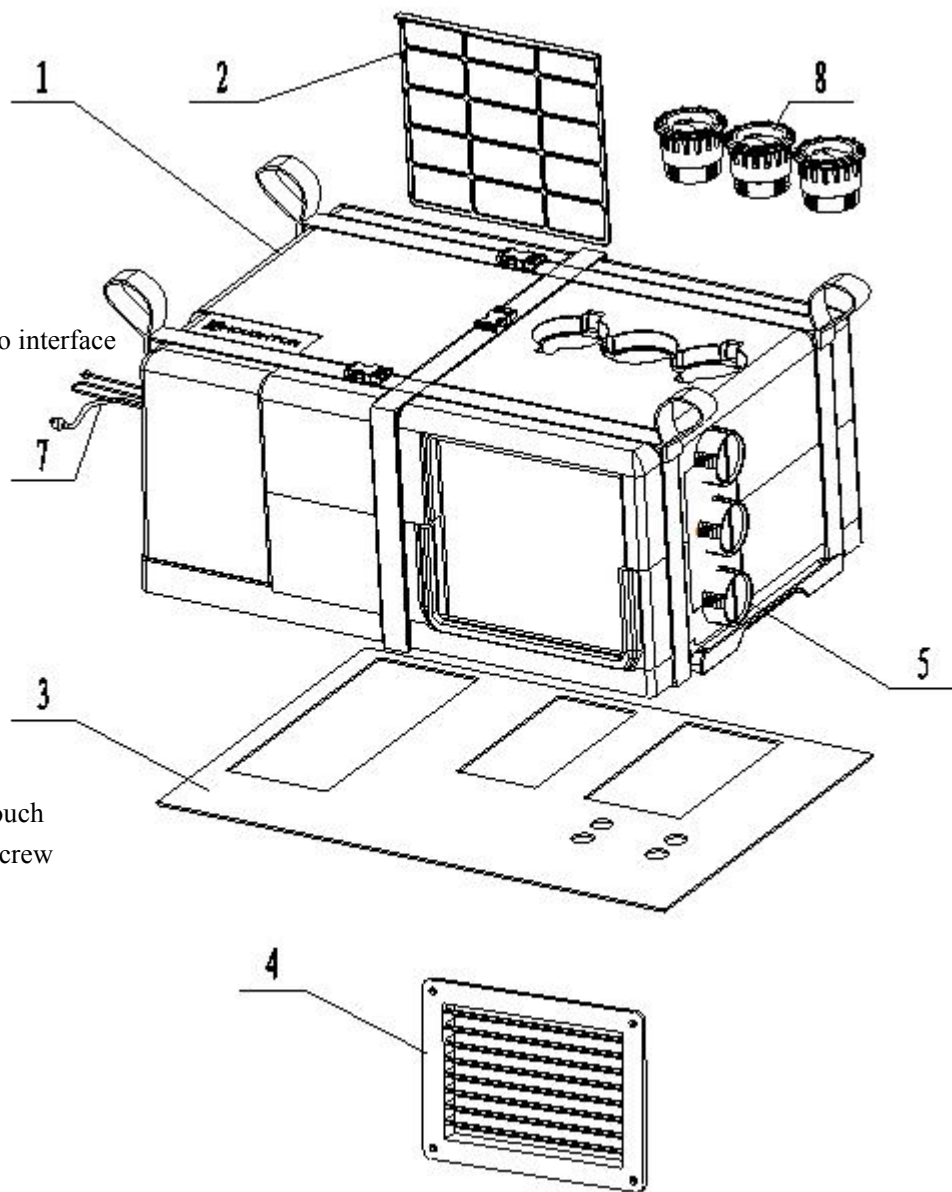
Main parts:

1. BELAIRE air-conditioner unit×1
2. Filter x1
3. Sealing mat x1
4. Return air grille x1
5. Ducting spigots
6. LCD touchscreen and remote (not shown)
7. Power cord (2m long) and separate cable to interface
8. Ducting outlets x 3

Fixtures and fittings (not shown)

9. Unit hold down screws x 4
10. Ducting brackets x 10
11. Ducting bracket screws x 20
12. Return air grille screws x 4
13. Return air grille screw caps x 4
14. LCD touch screen screws x 2
15. Remote bracket screws x 2

Note: The ducting bracket screws and LCD touch screen screws are all the same type of screw



BEFORE INSTALLATION.

DO NOT attempt to modify or add components to the installation procedure.

If your installation varies from the method outlined please contact HOUGHTON for specialty advice.



WARNING

The unit weighs approximately 30kg, ensure a two person lift or use a mechanical hoist to avoid the risk of injury. Failure to properly install the unit or attempting to modify it in any way can be extremely hazardous and may result in property damage and/or personal injury.

HOUGHTON will not be held responsible for issues arising from incorrect or improper installation methods.

Installation Guidance

INSTALLATION

Before beginning, mark out the position of the unit based on the following important requirements:

- The unit should be placed in the centre of the RV so that the duct lengths are as even as possible and also near to a power socket .(the power cord is 2m long)
- Consider that three holes will need to be cut through the floor for the outside intake and exhaust air.



Do not cut through the chassis or any structural Members in the floor.

- The floor **MUST** be strong enough to support the weight of the unit. Contact your caravan manufacturer to confirm the max load the floor can handle.



The unit must be installed so that the filter can be easily accessed and cleaned approximately once a fortnight. The unit should always be installed so that it is accessible if service/repair work is required. If these requirements are not fulfilled this may void the warranty!

- If you are not using the supplied return air grille then the minimum area for the return air is 345cm² (23cmx15cm), the area can be made up of multiple smaller areas.
- The total length of the ductwork should be as short as possible and not exceed 15m, the maximum length of one piece of ductwork is 6m.
- Consider placement of the LCD touch screen interface in an appropriate location, the cable length from the unit to the touch screen is 4m. (Extension cables are available, contact HOUGHTON if needed).
- The filter side of the unit should face the open side of the seat/bed where the return air grille is (Figure 1)

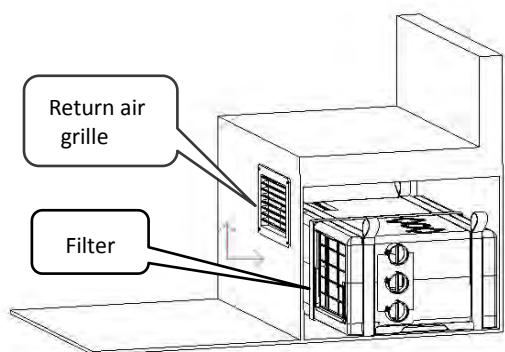


Figure 1-Preferred orientation of the unit where the filter is on the same side and close to the return air grille

- If this is not possible then there must be at least a 40mm gap between the wall/cupboard/seat and the filter of the unit and a 60mm gap between the top of the unit and the wall/cupboard/seat. (Figure 2)

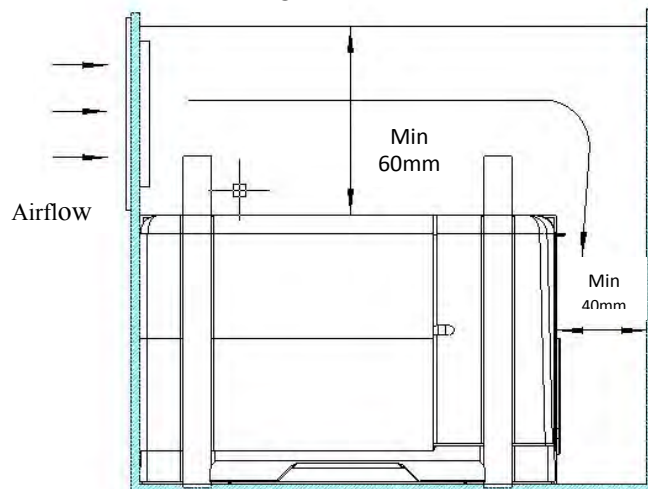


Figure 2-Minimum distances between the unit and the surrounding walls if the filter is on the opposite side compared to the return air grille

- If the return air grille is placed low down in front of the unit then the minimum distances to surrounding walls are shown in Figure 3.

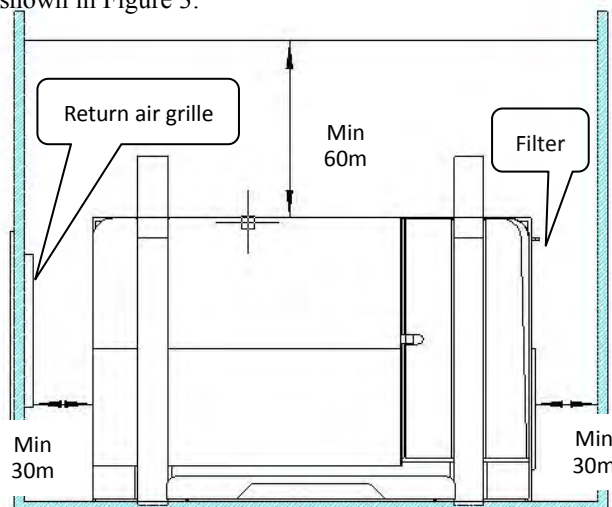


Figure 3-Minimum spacing for a fully enclosed unit with the return air grille on opposite sides to the filter



There must be no items placed between the filter and the return air grille which could cause obstructions to the air flow (see Figure 4)

- When locating the unit consider the path/routing locations for the ductwork. The less bends the ducting has, the greater the performance the unit will be able to achieve.
- Ensure the unit is located so that the underside intake is not in the vicinity of water/mud spray from the wheels.

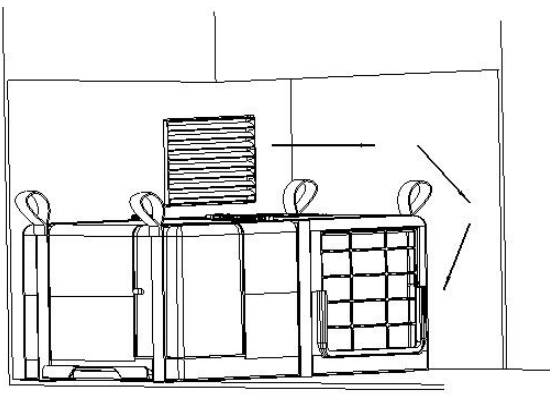


Figure 4-If the filter of the unit is placed on the opposite side of the return air grille then the air passage MUST remain unobstructed

Contact HOUGHTON if your installation differs significantly from that prescribed above.

1. Cut vent holes



WARNING

There may be electrical wiring located between the floor and inside the walls. Ensure that power is properly disconnected at the supply (mains and/or battery). Failure to do so may result in personal injury or death.

Floor cut-out

- When positioning the unit remember that you will need to get either a drill or long handled screwdriver into the cupboard/bed area to secure the hold down screws onto the floor.
- Mark out the holes in the floor using the template found at the end of this manual, also mark out the corners/edges of the unit so that the unit can be positioned correctly.
- Cut out the holes in the RV floor.



Do not cover the cut outs with chicken wire/mesh or similar, doing so may void the warranty. There are already grilles built into the bottom of the unit.

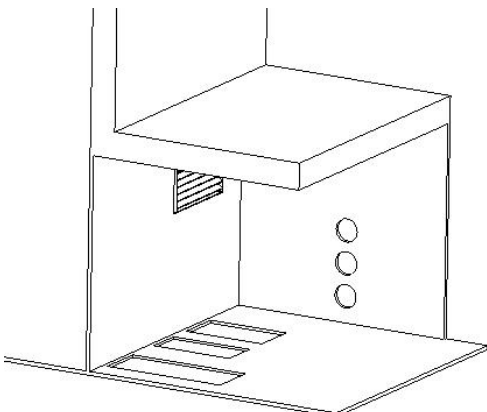


Figure 5-Floor cut outs

- Place the unit so that the edges of the unit line up with the edges marked from the template, secure the unit using the four six hold down screws supplied.

Cupboard/seat/bed cut out

- Determine where the return air grille will be placed according to the requirements above.
- If you are using the supplied return air grille then the minimum size cut out is 345cm² (23cmx15cm).
- Ensure the logo at the top of the return air grille is in the correct orientation.
- Cut out the required hole and secure the grille in place using the supplied screws.
- If you are not using the supplied return air grille then the minimum size cut out is 345cm² (23cmx15cm).

2. Route and secure ducting



Don't route the ductwork near any heat producing appliances such as the rear of a refrigerator as condensation will be formed. Do not have an outlet blowing air into the return air grille as this will 'short circuit' the unit.

- Attach the ducting securely to the unit by pushing/twisting the ducting onto the ducting spigots until the teeth are engaged.
- **Attach the longest piece of ducting to the bottom ducting spigot.**
- Screw the inner duct piece onto the other end of the ducting.



Figure 6-Inner duct piece shown on the left, outer duct piece shown on the right

- Route the ducting to where the outlets are desired ensuring the bends are kept to a minimum and are as smooth as possible. **It is recommended that the outlets are placed high up in the van and directed into areas of common usage (bed, dining table, kitchen etc)**



The longest single piece of ducting must be less than 6m and the overall length must be less than 15m.

- Cut 65mm diameter holes in the cupboard/wall where the ducting outlets will be positioned.
- Then place the inner duct piece on the inner side of the wall and screw the outer duct piece on (leaving only the outer duct piece visible).
- Attach the ducting to the walls or floor using the ducting brackets and screws provided.
- For ducting running up walls HOUGHTON recommends one ducting bracket per metre of ducting.
- Ensure that all ducting is secure on the unit and also where the inner duct piece is attached.

3. Electrical supply and interface



This unit MUST be installed in accordance with local wiring regulations. Ensure that power is properly disconnected at the supply (mains and/or battery). Failure to do so may result in personal injury or death.

- Locate an existing wall socket and plug the unit in.



If the supply cord is damaged, it must be replaced by HOUGHTON, one of its service agents or similarly qualified persons in order to avoid a hazard.

- With a flat head screw driver or similar pop off the rear cover of the interface.



Figure 7-Pop off the rear cover of the interface using a flat head screwdriver or similar

- Place the rear cover of the interface in position and screw to the wall using the screws provided.

- Drill a 15mm hole into the wall as shown in Figure 8

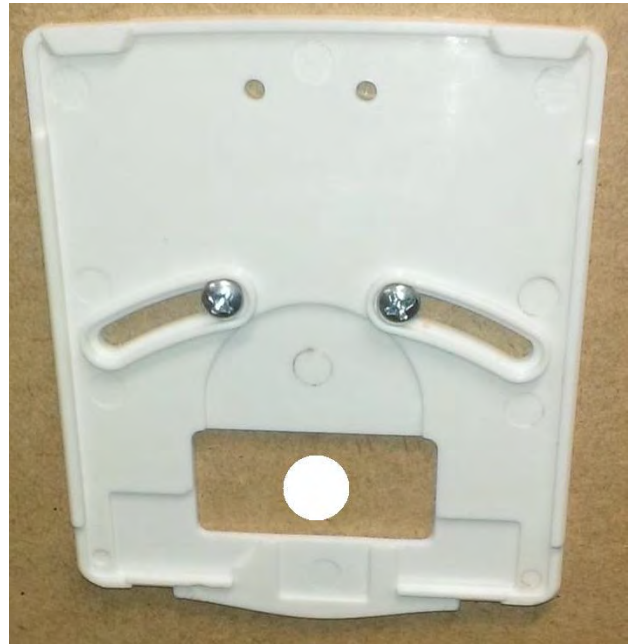


Figure 8-Screw the rear cover to the wall and feed cable through

- Feed the cable through the 15mm hole and clip interface onto the backing plate .(Figure 9)






Figure 9-Replace the front cover of the interface

- Locate the interface connection cable at the rear of the unit and connect the two cables

INSTALLATION IS NOW COMPLETE

Instructions for Use

1. Turn the power on at the circuit breaker.
2. Press the ON/OFF “  ” button and set the time and day (see operating instructions). Then press the MODE button “  ” to select FAN “  ”.
3. Cycle through the LOW, MED and HIGH fan speeds checking that all speeds run.
4. Set mode to COOL, adjust temperature via up/down buttons to 4°C **below** the display temp (i.e. room temp).

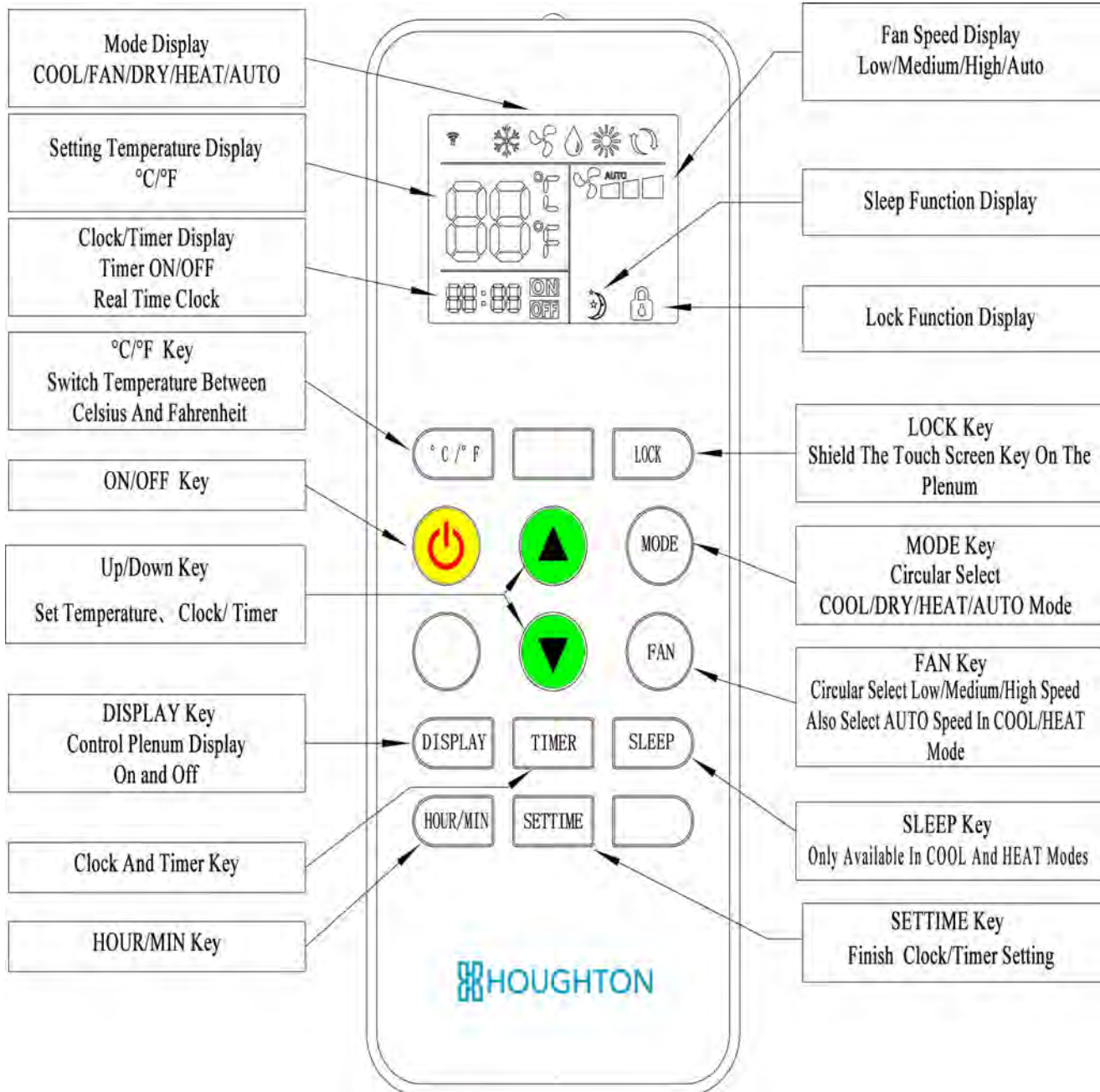
Note: *There may be a delay of up to 3 minutes before the compressor starts.*

5. Set mode to HEAT, similarly set temperature to 4°C **above** the display temperature. Compressor will start within three minutes. After a few minutes the fan will start and warm air will be apparent.

Note: *The fan will not begin blowing air until the inside coil has reached a temperature of at least 30° C. This is to ensure that no cold draughts are produced when the unit is first heating up.*


Operation Instruction

Remote controller




1. Operation of the remote controller


Turn on

- Press the on/off “




FAN mode

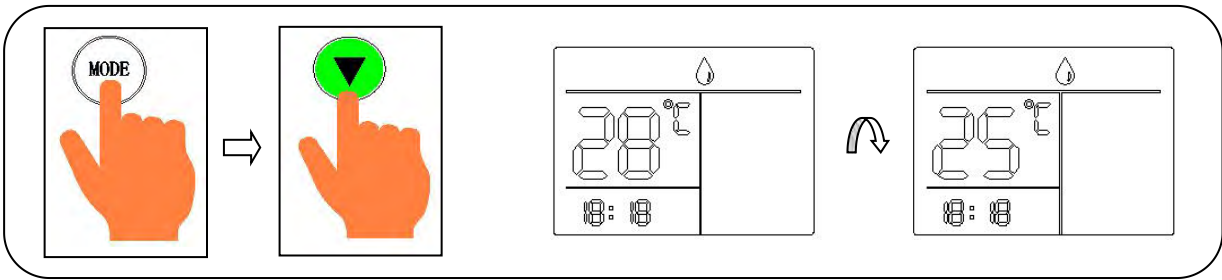
- Press the “MODE” key, select the “

COOL mode




- Press the “MODE” key, select the “

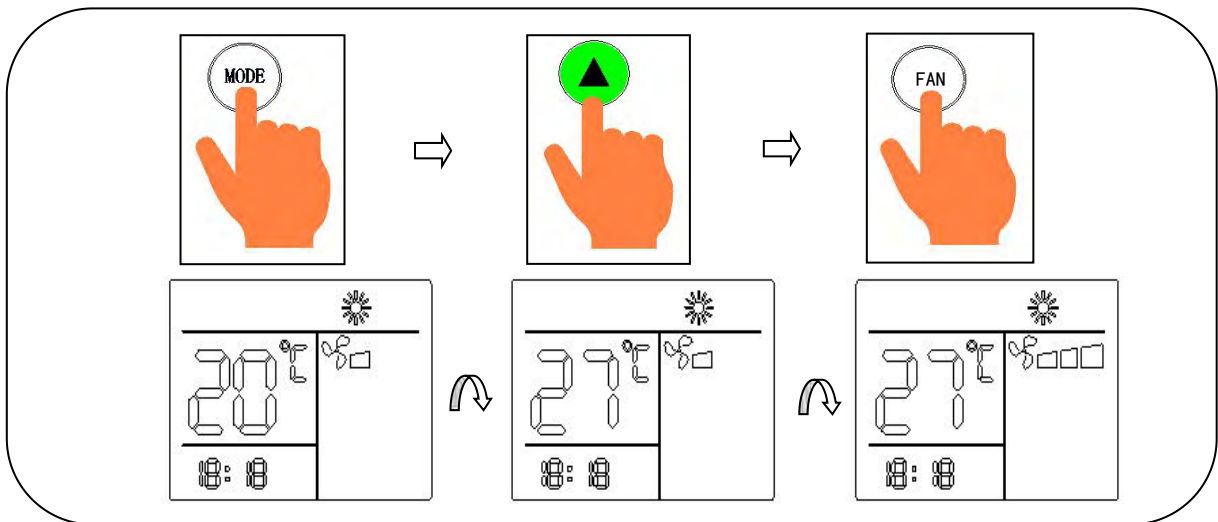
DRY mode

- Press the “MODE” key, select the “” mode, Press the down “” key to set the temperature 1°C lower than the room temperature , and the LCD touchscreen will display “” and the temperature.










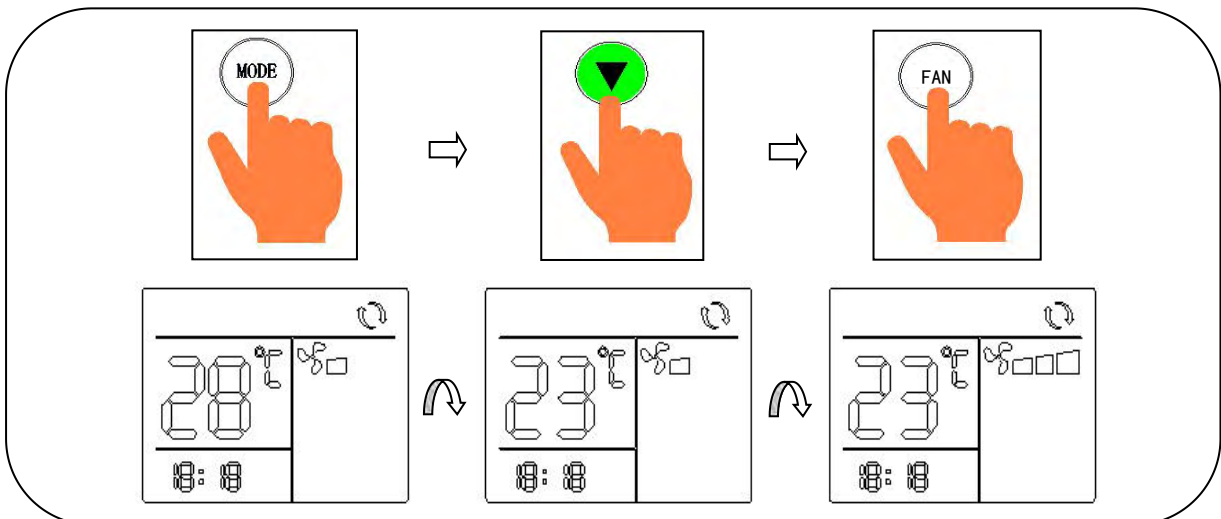
HEAT mode

- Press the “MODE” key, select the “” mode, Press the up “” key to set the temperature higher than the room temperature , Press the “FAN” key to select different speed. and the LCD touchscreen will display “” and the temperature.







AUTO mode

- Press the “MODE” key, select the “” mode, Press the up “” or down “” key to set different temperature , Press the “FAN” key to select different fan speed. and the LCD touchscreen will display  and “”, or  and “” , and the temperature.

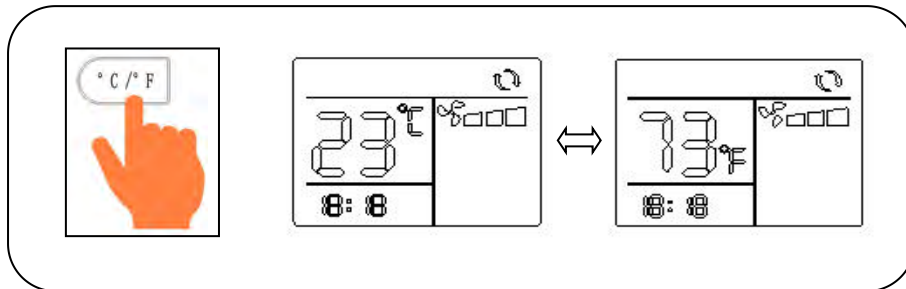


Note


When in the AUTO mode, according to the difference between the setting temperature and the environmental temperature, the LCD touchscreen will display “” and “” (automatic heating), or “” and “” (automatic cooling) in the same time.

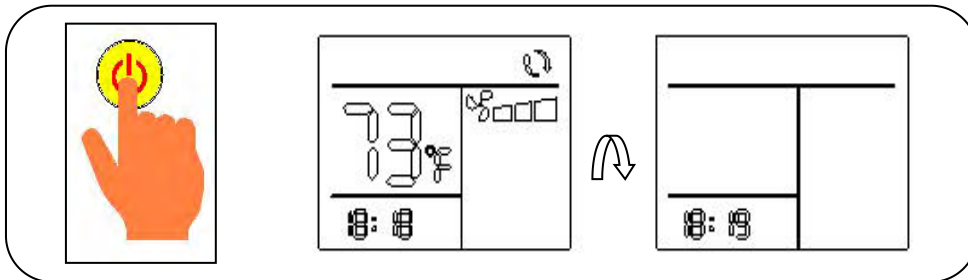
Celsius and Fahrenheit degree change

- In any mode, Press the “°C/°F” key, you can select temperature between Celsius and Fahrenheit.



Turn off

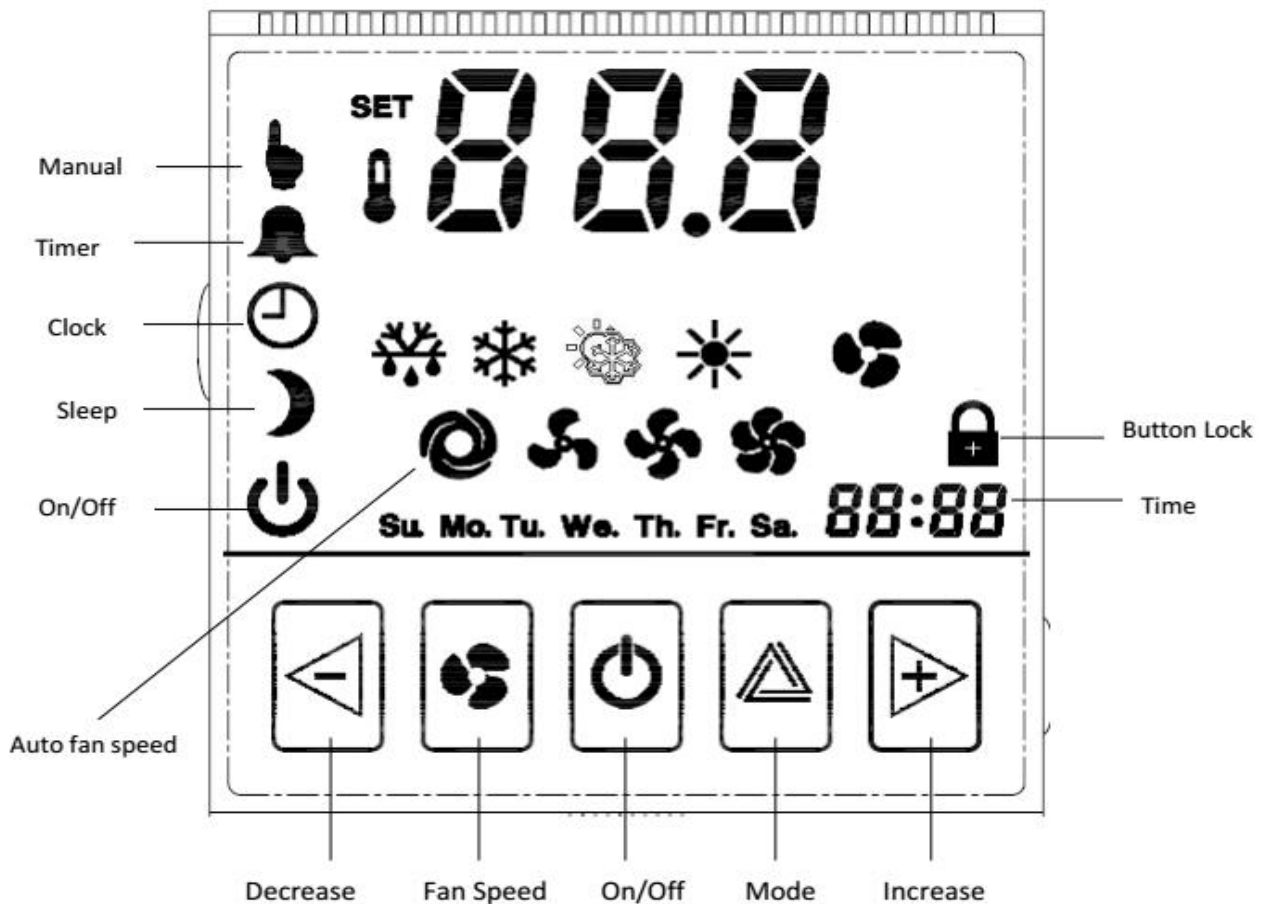
- Press the on/off “” key again, unit turns off and the LCD touchscreen will only display time.



Tips

- The remote controller should be operated by directing at the LCD touchscreen, which will beep once when received signal, otherwise operate after adjusting the distance and angle.
- The unit will blow cold air in COOL mode and hot air in HEAT mode..
- The air-conditioner features power cut memory and automatic starting-up after power back functions.
- Low temperature heating will cause frosting.
- When the environmental temperature is lower than 0°C, the heating effect is reduced, suggest to adopt other ways for heating in the same time.
- If the device is left unused for long time, please remove the batteries from the remote controller.

LCD touchscreen control panel



2. LCD touchscreen operation

DAY/TIME setting



- Press “” and “” for 3 seconds to enter day/time setting menu.
- Display will show “” blinking for 6 seconds.
- Press “” to change the day setting.
- Press “” or “” to adjust time, press once to change the time by minutes or hold the button down to change the time by hours.
- Press “” for 3 seconds to confirm clock setting, and return to main menu.

COOL mode

- Cycle mode button to highlight the snowflake icon “”.
- You may select High, Med, Low or Auto fan speeds by pressing the fan button “”.
- Now select the desired room temperature (herein referred to as the “set point”) by pressing the plus or minus keys “” or “”, the display will flash the set point temperature. Keep pressing the button until it flashes your desired set point. In approx. 5 seconds the display will resume reading the actual room temperature. The compressor will have a delayed start usually 3 minutes before unit starts to cool.




Note: Any interruption to the power supply will cause the unit to delay compressor start up.

FAN mode




- For simply recirculating air, choose the Fan mode “”. Choose any of the three fan speeds by pressing the fan button “”.

Note: Temperature button is invalid in Fan only mode.




HEAT mode

- Cycle mode button to highlight the sun icon “”.
- Select desired set point temperature by pressing the plus or minus keys “” or “”.
- After a short delay the compressor will start. However, air will not begin to flow until it has been heated up sufficiently; this is to prevent cold draft.



DRY mode

- The Dry mode is used when the room temperature is close to comfortable but you wish to dehumidify the air.
- Cycle mode button to highlight the snowflake/dripping icon “”.
- Select desired set point temperature by pressing the plus or minus keys “” or “”. Note: the fan speed is locked in LOW.
- The compressor will cycle on and off to extract moisture from the air.

AUTO mode





- The Auto mode “” is used when Turn unit ON.
- Press MODE until AUTO is displayed in the Mode Display.
- Press FAN SPEED until the required speed is selected .
- Select desired set point temperature by pressing the plus or minus keys “” or “”.

SLEEP



- With the unit operating in cool mode, press “” and “” for 3 seconds to highlight the sleep light (moon icon). The unit will automatically raise the set point by 1 °C per hour for the next three hours. Conversely in heat mode, the set point will be lowered by 1°C.

Note: Sleep mode will automatically be cancelled in 8 hours.

BUTTON LOCK

- This provides a means of locking the mode and fan settings to prevent any unintended input.
- Press “” and “” for 3 seconds to activate button lock, to unlock repeat the procedure.
- “” will display when button locked. Note: On/Off “” will not be affected by the button lock.

Celsius and Fahrenheit degree change

- Press “” and “” for 5 seconds to change temperature measurement unit to either °C or °F .

TIMER (will work only when set on the LCD touchscreen, it will NOT work if set by the remote)

- The timer function may be used to turn the unit either off or on at any point during the week.
Note: ensure that you have correctly set the time and day before attempting to set the timer.
- Press “▶” and “⏻” for 6 seconds to enter timer setting menu. (“🔔” will display after two beeps)
- “--:--” will display if there is no setting .
- With “🔔” blinking, press “⏏” to change the day setting.
- With “🔔” blinking, Press “▶” or “◀” to change set time.
- Press “⏻” for 3 seconds to change between On and Off timer setting.
- Press “🔄” for 3 seconds to cancel On/Off timer set for current day.
- Press “🔄” for 6 seconds to cancel all On/Off timer that previously set.
- System will save all settings and returns to main menu if there is no input for 10 seconds.

Note: “🔔” will be displayed when the weekly timer has been set.

Product Maintenance

Filter

- The filter is the only part of the unit that requires routine maintenance. It must be cleaned periodically to ensure that it does not become clogged with dust and other particles. The state of the filter can be ascertained from its appearance, if it appears dirty/clogged then it should be cleaned.
- To clean the filter, first remove it by pulling it out of the unit using the handle on the top. Then take the filter outside and brush it gently with a dust pan brush or similar.
- If a more thorough clean is required then the filter can be washed out using warm soapy water. Care must be taken to avoid ripping the fabric. The filter must be completely dry before reinstallation.
- The filter should be cleaned every two weeks or more when in use. Prolonged use, higher concentrations of airborne particles and various other factors may result in the filters needing to be cleaned more often.
- Replacement filters can be ordered directly from HOUGHTON.



WARNING

- 1、 A blocked filter will impair the cooling & heating performance of the unit significantly.
- 2、 Airborne particles can pose a health risk, particularly to young children and the elderly. Ensure that filters are cleaned in a safe and well ventilated area.

Holding screws

- HOUGHTON suggests that the screws attaching the unit to the cupboard are initially checked for tightness within the first 3 months of installation, and thereafter every 12 months if the van is in constant use.

Compressor mounts

- Ensure that the rubber mounts on the compressor are checked every 12 months and more often with frequent travelling. If the top mount looks very worn or there is no rubber left between the top washer and the compressor foot (metal on metal contact possible) then the rubbers need replacing.

Storage

- The air conditioner should be run on a routine basis to ensure the components remain in working order.
- If the van is in storage or is to remain unoccupied for an extended length of time it is recommended that the air conditioner is allowed to run uninterrupted for 20-30min once every six months.

Warranty Claims

- The unit comes with a one year manufacturer's warranty from date of purchase. It is **IMPORTANT** that you read and understand the conditions of the warranty agreement which are included with the unit.

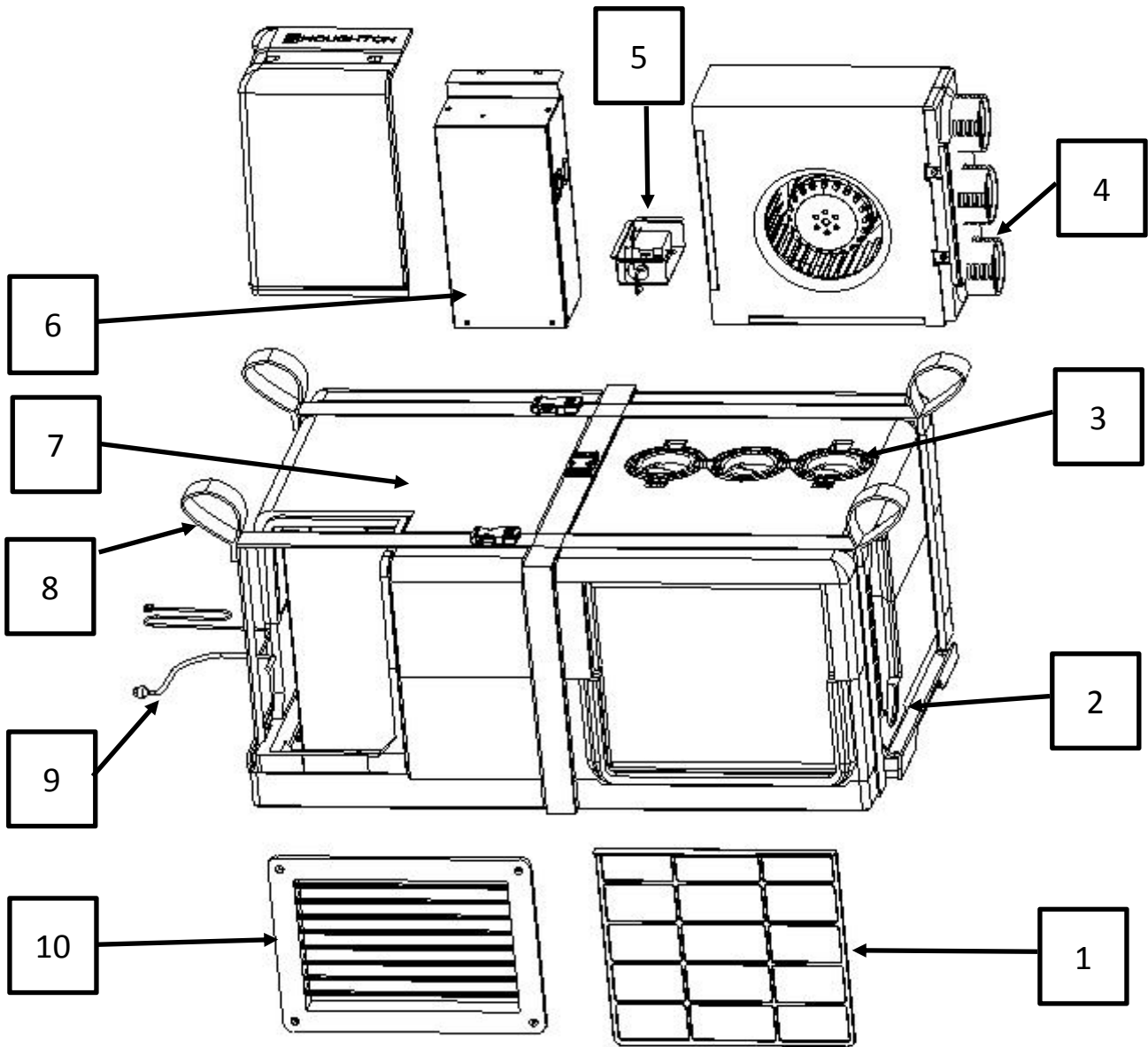
If you have a claim please contact HOUGHTON, please have your unit serial number ready (which can be found on the sticker on top of the unit).

Specification Parameters

Model	H2400D
Power supply	230-240VAC/50Hz
Refrigerant charged	R407C/500g
Rated cooling capacity (W)	2400
Rated heating capacity (W)	2000
Input power for cooling (W)	980
Input power for heating (W)	920
Rated current for cooling (A)	4.3
Rated current for heating (A)	4.1
Maximum input power(W)	1120
Maximum current (A)	4.9
Maximum design pressure (kPa)	2900
Minimum design pressure (kPa)	1840
Maximum air flow (l/s)	100
Fuse	T5AL250V
Installed weight (kg)	30
Unit dimension Height 287mm Width 442mm Length 652mm (690mm including hold down brackets)	

- Notes:**
1. All parameters listed are subject to change without notice and the nameplates on the machine shall prevail.
 2. E&OE All values are approximate & subject to change.
 3. The remote control battery is two 7# dry batteries.

Exploded Diagram and Parts List



No.	Figure No.	Name	Note
1	4738-1000-10	Filter	
2	4738-1000-00	Unit (without ducting)	
3	4738-0000-17	Ducting outlets	
4	4738-1010-00	Inside fan assembly	
5	4640-2020-02	Thermostat switch	
6	4708-1241-01(f)	Electronic control board	
7	4738-1000-03	Top foam canopy	
8	4738-1000-17/18	Buckles and straps (all 3 included)	
9	4658-1700-03	Power cord	
10	4738-0000-19	Return air grille	
11	4738-1020-03	Outside fan	Not shown
12	7339-1700-02(GG)	Remote control	Not shown
13	4658-2000-02	LCD touchscreen	Not shown
14	TDQ-04105	Fan capacitor(3uF/450VAC)	Not shown
15	TDQ-04202	Compressor capacity(20uF/450VAC)	Not shown

Trouble shooting guide

No display of the LCD touchscreen

- Check whether the access to the power of the RV OK?
- Poor connecting of the control line between the unit and the LCD touchscreen, maybe fallen off?

Cooling not available

- To make sure the mode is chosen as Cooling, and the light of cooling mode “❄️” is on.
- The temperature setting value on the remote controller should be lower than the indoor temperature.
- The compressor has a delay start for three minutes.

Heating not available

- To make sure the mode is chosen as Heating, and the light of heating mode “🔥” is on.
- The temperature setting value on the remote controller should be higher than the indoor temperature; the compressor has a delay start for three minutes.
- More time would be needed for starting heating under extremely cold condition.

Poor cooling or heating capacity

- Ensure the filter is clean.
- Turn on the fan to high FAN to obtain the maximum capacity.
- Make sure all the doors and windows, as well as the sunroof are closed.
- Curtains and awnings can be used to decrease the heating load.
- Ensure that at least 2 outlets are open
- Ensure return air inlet is not blocked by objects or is not too close to cupboards/walls etc
- Air outlet is not directed into the return air inlet
- Ducting length is too long and has too many sharp bends
- RV is too large for the air conditioner

Fault codes displayed on the LCD touchscreen

Room temperature sensor fault	E1
Indoor coil temperature sensor fault	E2
Outdoor coil temperature sensor fault	E3
Inadequate coolants	E4
Temperature anomaly	E5

E1: Room temperature sensor

Fault in connection to temperature sensor or other damage.

E2: Indoor coil temperature sensor

Fault in connection to temperature sensor or other damage.

E3: Outdoor coil temperature sensor Fault in connection to temperature sensor or other damage.

E4: Insufficient refrigerant-capillary tube fracture leads to coolants leakage, compressor fault or sensor failure.

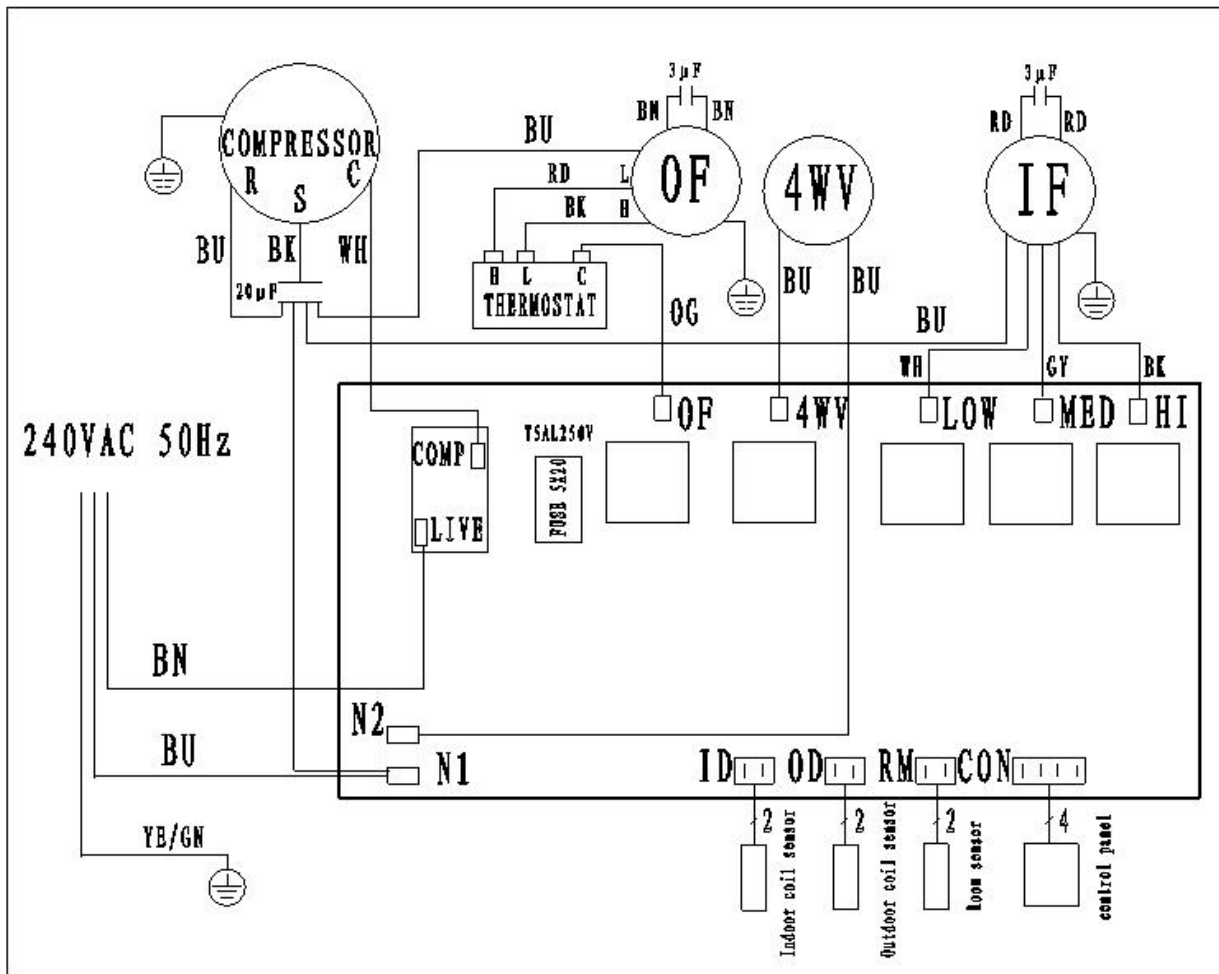
E5: Temperature anomaly-outdoor coil temperature too high when cooling or too low when heating.(When cooling, the display of E5 indicates the outdoor temperature exceeds 68 °C . It is likely due to the reduction of air low of the condenser, poor working of condenser fan or sensor failure; when heating, if the outdoor temperature is higher than 18 °C , the external air blower may be on and off circularly. The occurrence of this is not a fault, but the self protection of the system for avoiding overheating of the unit.)

- In case there is “0” or any messy code when the generator supplies power, this may indicate unstable voltage and current.

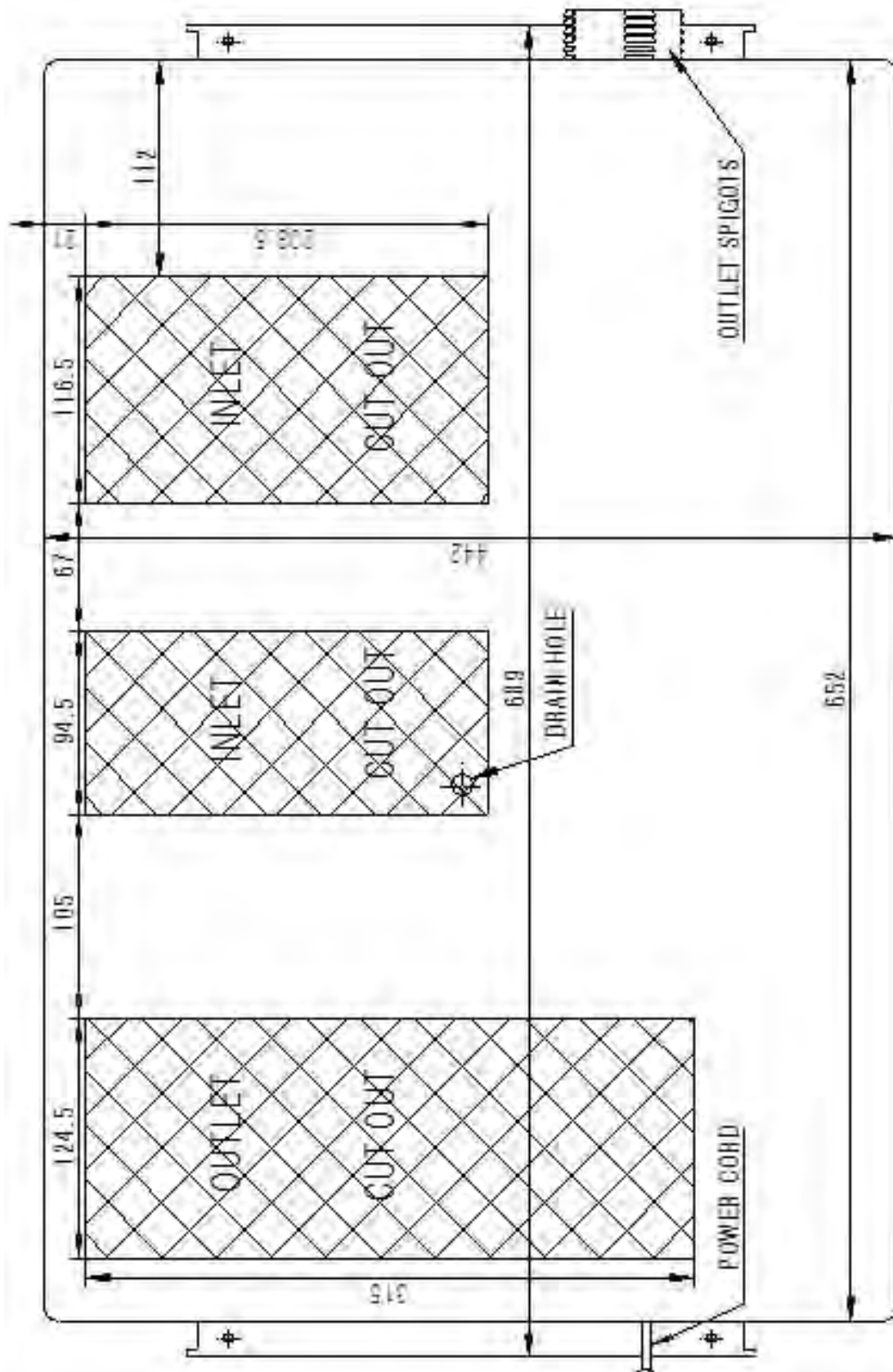
Answer the following questions as far as possible when contacting for fault diagnosis:

- If any error code is displayed?
- Whether the display panel is in normal operation or not? Whether the temperature displays from 16 to 30°C?
- Whether the temperature can be freely adjusted from 16 to 30 °C when in cool or heat mode?
- Whether there is “0” shown in the display?
- Whether any messy code on the display?
- Whether the switching of low, medium and high speed wind is available after speed setting? Whether any air out?
- Whether the compressor is working or not?

Circuit Diagram



Unit Floor Template





Houghton Leisure Products Pty Ltd.

Suite225, Level 2, 33 Pirie St, Adelaide SA 5000

Service call: +61 8 72311891

Website: www.houghtonleisure.com.au